Pape	r Code	2017 (	A) Roll No.	
Num	ber: 4181	INTERMEDIATE P	ART-II (12th CLASS)	
STA	TISTICS PAPE		ME) (SESSION 2015-2	017)
TIM	E ALLOWED: 20 N	Minutes OB	JECTIVE MA	AXIMUM MARKS: 1
think Cutti as giv	is correct, fill that cir ng or filling two or m en in objective type q	rcle in front of that question ore circles will result in ze question paper and leave of	question as A, B, C and D. on number. Use marker or ro mark in that question. A thers blank. No credit will his sheet of OBJECTIVE P	pen to fill the circles. ttempt as many question be awarded in case
Q.No	.1			
(1)	In a Normal Distrib	ution, $\delta$ is always:-		
	(A) Negative number	er (B) Zero	(C) Positive number	(D) Odd number
(2)	If $y = 5x + 10$ and	X is $N(10, 25)$ , then m	nean of Y is:-	
	(A) 50	(B) 60	(C) 70	(D) 135
(3)	Standard normal pro	bability density function is	denoted by:-	,
	(A) F(X)	(B) $\mu(X)$	(C) ₹	$\phi(Z)$
(4)	Population size is de	enoted by:-		
	(A) M	(Fi) N	(C) n	(D) m
(5)	If $\sum x = 18$ , $N = 3$	, then $\mu$ is:-		
	(A) 6	(B) 9	(C) 3	(D) 10
(6)	The collection of det	tailed information is known		
	(A) Units	(B) Designs	(C) Inaccuracies	(D) Census
(7)	A point estimator is	a sample:-		
	(A) Estimate	(B) Value	(C) Parameter	(D) Statistic
(8)	Type - II error is der	noted by:-		grades and the second second
	(A) ∝	<b>3</b> ) β	(C) 1−β	(D) 1 − ∞
(9)	A sample of size n i	is called a small sample if n	is:-	
	(A) < 30	(B) ≥ 30	(C) = 30	(D) ≤ 30
(10)	Independent variable	e is also called:-		
	(A) Regressor	(B) Regressand	(C) Predictand	(D) Explained
(11)	When two variables	are uncorrelated the value o	f 'r' is:-	
	(A) -1	(B) 0	(C) + 1	(D) + 2
(12)	If $\sum y = 96$ , $n = 8$ ,	if $b = 0$ then 'a' is:-		
	(A) 10	(B) 11	(C) 12	(D) 13
(13)	In attributes, "Negat	ive class Frequency" can ne	ver be:-	
	(A) Ultimate	(B) ositive	(C) Negative	(D) Consistence
(14)	The two attributes ar	re independent, if:-		
	(A) $Q = -1$	(B) $Q = 1$	(C) $Q = 0$	(D) $Q = 2$
(15)	Seasonal variations a	are short term:-		
	(A) Analysis	(B) Indicators	(C) Components	(P) Movements
(16)	For best fitted line	$\sum (y - \hat{y})^2$ is:-		
	(A) Maximum	(B) Minimum	(C) Zero	(D) None of these
(17)	The unit of frequenc	y is:-		(C-0) 1111 111 111 111 111
	(A) Newton	(B) Joule	( ) Hertz	(D) Second

Pa	per Code	2018	(A) Roll	No
Nu	mber: 4181	INTERMEDIATE	PART-II (12th CLAS	S)
ST	ATISTICS PAP	ER-II (NEW SCHE		-,
TIN	ME ALLOWED: 20			MANDERANANCE
		-	BJECTIVE	MAXIMUM MARKS: 17
Cut as g	ting or filling two or n iven in objective type	ircle in front of that questi	on number. Use marke ero mark in that question others blank. No credit	on. Attempt as many questions
Q.N		•		Y D T THE DIG
(1)		ution, $P(-\infty < \times < +\infty)$ is	equal to:-	
	(A) 1	(B) 0	(C) -1	(7)
(2)		tion, $M.D(x)$ is equal to:-	(c) -1	(D) -2
	(A) .8989σ	(B) .7979 σ	(0) (0)	
(3)			(C) .6969 σ	(D) $.5959\sigma$
(2)		tion if mean = 50, then the $v$		
(4)	( <u>A</u> ) 50	(B) 40	(C) 30	(D) 60
(4)	A sample is a part of		A STATE OF THE STA	
(5)	(A) Sampling	(L) Population	(C) Unit	(D) None of these
(2)		d from sample data is called		
10	(A) Error	(B) μ	(C) Statistic	(D) Bias
(6)		all the sampling units are ca		
(7)	(a) Sampling frame	1		
(7)		s used to estimate the unkno	wn true value of populati	on:-
(0)	(A) Data	B) Parameter	(C) Estimation	(D) Estimate
(8)		pe - II error is denoted by:-		
523	(A) α	(B) β	(C) $1-\beta$	(D) $1-\alpha$
(9)	If $n < 30$ and $\sigma$ un	nknown we use:-		
	(A) F – test	(B) Z – test	(6) t – test	(D) Chi - square test
(10)	The dependence of o	ne variable upon other is ca	lled:-	The state of the s
	(A) Regression	(B) Correlation	(C) Covariance	(D) None of these
(11)	In regression equation	$\hat{y} = a + bx,  \sum (y - \hat{y})$	) =	
	(A) – 1	(3) 0	(C) 1	(D) 2
(12)	The value of correlat	ion coefficient r lies betw	een:-	
	(A) - 1 and 0	(B) - 1  and  + 1	(C) 0 and +1	(D) - 2 and $+ 2$
(13)	The two attributes are	e independent if:-		
	(A) $Q = -1$	(B) $Q = 1$	(C) $Q = 2$	Q = 0
(14)	Qualitative variable i	s also called:-		187 5000
	(A) Frequency	(E) Attribute	(C) Class	(D) None of these
(15)	Systematic componer	nt of variation in a time serie	es is called:-	, , , , , , , , , , , , , , , , , , , ,
	(A) Component	(B) Noise	(C) Signal	(D) Series
(16)	Fire in a factory is an	example of:-		27 - 23/40
	(A) Secular trend	(B) Cyclical variati	on (C) Seasonal variation	on (D) Irregular variation
(17)	The number of instru	ctions processed in one seco		Same Aminuon

(A) Data

(B) Storage

(L) Speed

(C) Accuracy

Paper Cod	e	2018 (A)	Roll No.	
Number:	8181	INTERMEDIATE PART-II	(12th CLASS)	

## STATISTICS PAPER-II (OLD SCHEME)

TIN	IE ALLOWED: 2	0 Minutes	<b>OBJECTIVE</b>	MAXIMUM MARKS: 1
Cuti as g	k is correct, fill that ting or filling two or iven in objective typ BBLES are not filled o.1	t circle in front of that of more circles will result be question paper and I d. Do not solve question	question number. Use m t in zero mark in that que eave others blank. No co ns on this sheet of OBJE	
(1)	$X \sim N(50, 49),$	, if $Y = X - 7$ , then st	andard deviation of Y is:	
	(A.) 7	(B) 14	(C) 0	(D) 49
(2)	The mean and star	ndard deviation of the st	andard normal distribution	n are respectively:-
	(A) 1 and 0	(B) 0 and 1	(C) $\mu$ and $\sigma^2$	(D) None
(3)	In a normal curve	$\mu \pm \sigma$ covers:-		
	(A) 50 % area	(E) 68.27 % area	(C) 95.45 % area	(D) 99.73 % area
(4)	A value calculated	d from population data is	Committee of the Commit	,
	(A) Statistic	(L) Parameter	(C) Standard error	(D) None
(5)	Standard error of i	mean is the standard dev	iation of:-	V=7.1-00-
	(A) Sample	(B) Population	(i) Sampling distributi	on of mean (D) None
(6)	A border patrol cl	heck point that stops eve		( )
	(A) Simple randor	m sampling (B) Systema	tic sampling (C) Compl	ete enumeration (D) None
(7)		nce is denoted by:-		V 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	(A) β	(B) $(1 - \beta)$	(C) α	(D) $(1 - \alpha)$
(8)	A hypothesis that	does not specifies all val	ues of the parameters is c	
			pothesis (C) Statistical h	
(9)			testing a null hypothesis i	
	(A) Population st	atistic (B) Test statistic	(C) Level of significan	ce (D) None
(10)		quation $\hat{y} = a + bx$ , y i		V ,
			variable (C) Y-intercep	t (D) None
(11)	$b_{yx}$ and $b_{xy}$ al			(O) Hone
	(A) Same signs	(B) Opposite	signs (C) No signs	(D) None
(12)	In the regression e	quation $\hat{x} = c + dy$ , c	is called:-	
	(A) Y-intercept	(P)X – inter	cept (C) Independent	variable (D) Dependent variable
(13)			en two attributes $A$ and $B$	
	(A) Negative	(B) Positive	(C) Zero	(D) None
(14)	The coefficient of	association lies between		
	(A) 0 to 1	$(B) -\infty$ to	(C) -1 to +1	(D) $-1$ to 0
(15)	The graph of time s	series is called:-	•	
	(A) Historigram	(B) Histogram	n (C) Ogive	(D) Pie diagram
(16)	Increase in the nur	nber of patients in a hos	pital due to heat stroke is:	
	(A) Secular trend	( ) Seasonal	variation (C) Cyclical va	ariation (D) Irregular variation
(17)	One byte equals:-			
	(A) 8 bits	(B) 4 bits	(C) 6 bits	(D) 12 bits
			40(Obj)(2)-	2018(A)- 130 (MULTAN)

Pap	er Code		2019 (A)	Roll No
-	mber: 4181		ATE PART-II (12	h CLASS)
			SCHEME)	MAN GRANDEN CO.
Not thin! Cutt as gi	k is correct, fill that ting or filling two or iven in objective type	noices for each object circle in front of that more circles will res e question paper and	t question number. U ult in zero mark in the leave others blank. N	MAXIMUM MARKS: 17 A, B, C and D. The choice which you se marker or pen to fill the circles. at question. Attempt as many questions to credit will be awarded in case OBJECTIVE PAPER.
Q.N				
(1)	The whole area un	nder the normal curve	is:	
	(A) Zero	(B) 0.50	(6) One	(D) 0.75
(2)	In normal distribut	tion if $\mu = 20$ and $\sigma$	$^2$ = 36 then median is	equal to:
3.5	(4) 20	(B) 36	(C) 6	(D) 40
(3)		andard normal distrib		(2) 40
	(A) Zero	(B) One	(C) 100	(D) ∞
(4)		en the value of popula		
1.7	(A) $\frac{1}{12}$	(B) 24	(C) 12	(D) 144
(5)	12	No. of the control of		
(5)	The possible samp $(A) N^n$	(B) $n^N$	replacement are taken b (C) ${}^{N}C_{n-1}$	(D) $^{N}P_{n}$
10				
(6)		n be reduced by:	(A) Non sampling	
(7)			ecreasing the sample si	ze (D) Increasing the population
(7)	Level of confidence		(0) 1 0	(D) 8
(0)	(A) 1 − ∞		(C) 1 – β	(D) β
(8)	70.500	degree of free		
(0)	(A) n	(B) n−2	(C) n-3	) $n-1$
(9)		we reject $H_o$ , it is cal		
10.20			12.11.11.11	r (I Type – I error
(10)			the other regression co	
	(A) +ve	(3) -ve	(C) 0	(D) I
(11)		uation always passes t (B) $(a, b)$		(D) (0, 0)
(12)	4	n which one is true?	7 (21, 1)	(2) (3, 3)
(12)				
	$(A) b_{xy} = b_{yx}$	(B) $b_{xy} = r_{yx}$	(C) $b_{xy} = r_{xy}$	(D) All of these
(13)	The attributes A	and B are called inde	pendent when:	
	(	(B) $r = 0$	(C) $Q = 1$	(D) $r = 1$
(14)	Spearman's co-eff	ficient of rank correlat	ion always lies between	n:
	(A) 0 and 1	(L) - 1 and $+ 1$	(C) $-\infty$ and $+\infty$	(D) 0 and +∞
(15)	For a least squares	s linear trend $\hat{Y} = a +$	bX, the b is the:	
	(A) Variable	(B) Intercept	( ) Slope	(D) Trend value
(16)	Damage to the cro	ps due to flood is:		38 4 miles
	(A) Secular trend	(B) Seasonal vari	ation 🍊) Irregular mo	ovement (D) Cyclical variation
(17)	One byte is equal	to:		The second secon
	(A) 8 bits	(B) 4 bits	(C) 6 bits	(D) 12 bits
			40(Obi)	(*)-2019(A)-2300 (MULTAN)

Paper Code	Paper	Code	
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2019 (A)

Roll No.

Number:

8181

## INTERMEDIATE PART-II (12th CLASS)

## PAPER-II (OLD SCHEME) STATISTICS

TIME ALLOWED: 20 Minutes

**OBJECTIVE** 

MAXIMUM MARKS: 17

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

Q.No	.1	ters of Normal distribution		
	(A) Four	(B) Three	( Two	(D) One
(2)	The state of the s	if $\mu = 10$ then mode is:		(-)
	(A) 100	<b>()</b> 10	(C) 5	(D) Zero
(3)	Total area under the no	rmal curve is:		
	<ul><li>1</li></ul>	(B) < 1	(C) > 1	(D) None
(4)	Population parameters	are denoted by:		
	(A) Roman letters	(P) Greek letters	(C) Latin letters	(D) English letters
(5)	The mean of sampling	distribution of means is d	enoted by:	
	(A) $\overline{X}$	(B) P	(C) S <sup>2</sup>	(D) $\mu_{\overline{x}}$
(6)	In sampling without rep	placement, a sampling uni	it can be selected:	
	(A) Twice	Once	(C) < 1	(D) > 1
(7)	The point estimator of	$\mu$ is:		
	(A) <i>X</i>	(B) X	(C) $\widetilde{X}$	$\overline{X}$
(8)	The probability of type	I error is:		
	$(A)\alpha$	(B) β	(C) 1 – α	(D) None of these
(9)	Critical region is a region	on of:		
	( Rejection .	(B) Acceptance	(C) Indecision	(D) None
(10)	The term regression wa	s used by:		
	(A) Newton	(B) Fisher	C) Galton	(D) Pearson
(11)	A perfect Negative corn	relation is represented by:		
	(A) 1	(B) Zero	(C) Zero and one	(P) - 1
(12)	If $r_{xy} = 0.8$ than $r_{yx}$	is:		
	(A) 0.8	(B) 0.6	(C) 0.4	(D) 0.1
(13)	For 3 × 4 contingency	table, the degree of freed	om will be:	
	(A) 12	<b>( 6</b>	(C) 4	(D) 3
(14)	The eye colour of 100 r	men is:		
	(A) Attribute	(B) Variable	(C) All of these	(D) None of these
(15)	Fire in a factory is an e	xample of:		
	(A) Secular trend	(B) Seasonal varia	tion (C) Cyclical varia	ation () Irregular variation
(16)	In semi average method	d, we divide the data into:		
	(A) 4 parts	(b) 2 parts	(C) 8 parts	(D) None

1				
100	er Code		2020	Roll No
Nur	nber: 4181 INTERM	EDIATE PART-II	(12th CLASS) (SP	ECIAL EXAMINATION)
	TISTICS PAPER-II	0.0	THE CONTRACT	14. VD # D # 14. DV 6 . 17
	think is correct, fill that b or pen to fill the bubbles. question. No credit will be	each objective type subble in front of the Cutting or filling tw e awarded in case Bl	nt question number, o vo or more bubbles w	MAXIMUM MARKS: 17 and D. The choice which you on bubble sheet. Use marker fill result in zero mark in that d. Do not solve question on
Q.No	this sheet of OBJECTIVE	PAPER.		
(1)	In a normal distribution, the	value of R. and R.	are respectively:	
(.)	(1)0 & 3	(B) 3 & 0	(C) 0 & 1	(D) 1 & 3
(2)	The normal curve is called:	(b) 3 & 0	(c) 0 & 1	(1) 1 42 5
(-)	(A) Leptokurtic	(B) Platykurtic	(E) Mesokurtic	(D) Skewed
(3)	The number of parameters i			(0)
	(A) Five	(П)/Гwо	(C) Three	(D) Four
(4)	A value calculated from the	sample data is called		
	(A) Parameter	Etatistic	(C) Mean	(D) Proportion
(5)	The possible samples in wit	hout replacement san	ipling are:	
	(A) N-n	(B) N+n	$(C)^N C_n$	(D) N <sup>n</sup>
(6)	Standard error of the mean	is the standard deviati	ion of the:	
	(A) Population	(B) Sample	(C)Sampling distribut	ion of means (D) None of these
(7)	If $E(\hat{\theta}) = \theta$ , then $\hat{\theta}$ is:			
.,	(A) Biased	(B)Unbiased	(C) Positively	(D) None of these
(8)	Confidence coefficient or le			(12) Hone of more
(0)	(A) 1 – β	(B) 1-α	(C) α	(D) β
(9)	Two tailed test is used if:		(-/	1-77
0-7	(A) $H_1: \mu < \mu_0$	(B) $H_1: \mu > \mu_0$	$(C)H_1: \mu \neq \mu_0$	(D) None of these
(10)			11.1.4.40	(2) 110110 21 111111
(10)	The sum of squares of resid	••••••••••••••••••••••••••••••••••••••	( L 2	$\Sigma e^2$
	(A) e	(B) ∑ <i>e</i>	$(O)\sum e^2$	(D) $\frac{\sum e^2}{n}$
(11)	If $y = 10 - 2x$ , then the sl	opeof line is:		
	(A) 10	(B) 2	( <u>()</u> ) -2	(D) Unknown
(12)	If both regression coefficier	its are negative, then	the correlation coeffici	ents will be:
	(A)/Negative	(B) Positive	(C) Zero	(D) One
(13)	If two attributes $A$ and $B$ a		the coefficient of associ	
	(A) -1	(B) +1	(C))0	(D) 0.5
(14)	Chi-square curve ranges fro			(D) 0
	(A) $-\infty$ to $+\infty$	(B) 0 to ∞	(C) −∞ to 0	(D) 0 to 1
(15)			CONT.	(D) C
(10)	(A) Histogram	(B) Trend line	(C) Historigram	(D) Scatter diagram
(16)	Fire in a factory is an examp		(0) 0	ini - Olimon I V
(17)	(A) Secular Trend		ion (C) Seasonal Var	riation (D)Irregular Variation
(17)	The most common input de		(C) Manitan	(D) Printer
	(A) Keyboard and mouse		(C) Monitor	(D) Printer
		S	E-40(Obj)(**)-2020-2	200 (MULTAN)

(A) De-trending

(B) Noise

(C) Analysis of time series (D) None

40(Obj)(★)-2021(A)-2000 (MULTAN)

Pape	r Code	2017 (A)	Roll No	
Num	ber: 8181	INTERMEDIATE PART-I	I (12th CLASS)	
TAT		R-II (OLD SCHEME) (S		
	ALLOWED: 20 M			IMUM MARKS: 1
hink Cuttir is give	is correct, fill that circ ng or filling two or mor en in objective type qu BLES are not filled. D	es for each objective type question le in front of that question number re circles will result in zero mark estion paper and leave others bloom on this shee	oer. Use marker or pen in that question. Atter ank. No credit will be a	npt as many question warded in case
1)		pproximately equal to:-		
	( <u>^</u> ) 2.7183	(B) 2.6183	(C) 2.8173	(D) 3.1416
2)	Total area under the cu	urve is:-		
30.TV.	(A) 1	(B) < 1	(C) > 1	(D) None of these
3)	In a normal distribution			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(A) Quartile deviation		(C) Variance	(D) None of these
(4)	Sample is a subset of:		Variance	(b) None of these
	(A) Population	(B) Data	(C) Set	(D) Distribution
(5)	The finite population of		(0) 561	(b) Distribution
-,			N-n	(N-n)
	(A) $\frac{n}{N}$	(B) $\frac{N}{n}$	$\binom{N-n}{N-1}$	(D) $\sqrt{\frac{N-n}{N-1}}$
6)	Probability distributio	n of a statistic is called:-		
	Sampling distribution	ition (B) Standard error	(C) Sampling error	(D) Parameter
7)	A large sample contain	ns more than:-		
	(A) 5 values	(B) 10 values	(C) 20 values	<ul><li>30 values</li></ul>
(8)	Power of test is denote	ed by:-		
	(A) α	(B) β	(C) $1-\alpha$	(D) $1 - \beta$
9)	The probability of typ	e – I error is called:-		
	$(A) \alpha$	(B) 1 – α	(C) β	(D) $1 - \beta$
10)	Simple linear regressi	on model contains:-		
	(A) One variable	(B) Two variables	(C) Three variables	(D) None of these
11)	If $r_{xy} = -0.84$ then	r <sub>yx</sub> is:-		
	(A) - 0.84	(B) 0.84	(C) 0.42	(D) None of these
12)	Strength of linear rela	tionship between variables is calle		<b>(-7</b>
	(A) Regression	(B) Causation	(C) Correlation	(D) Association
(13)	The parameters Chi S			
	(A) Degree freedor	m (B) Number of rows	(C) Number of colur	nns (D) None of the
(14)	If $(AB) > \frac{(A)(B)}{n}$	then association is:-		
15)	(A) Positive	(B) Negative	(C) Perfect	(D) None of these
13)	Methods of secular tre		(0) (	(D) 5
(16)	(A) 2 The graph of time can	(B) 3	(C) 4	(D) 5
10)	The graph of time ser		(C) T1	(D) 8:1-1-1
17)	(A) Histogram	(B) Historigram	(C) Trend	(D) Straight line
11)	Display on the compu  (A) Soft copy		(6) 6	(D) N 6.1
	(10) Soft copy	(B) Hard copy	(C) Computer copy 0(Obj)(★)-2017(A)- →	